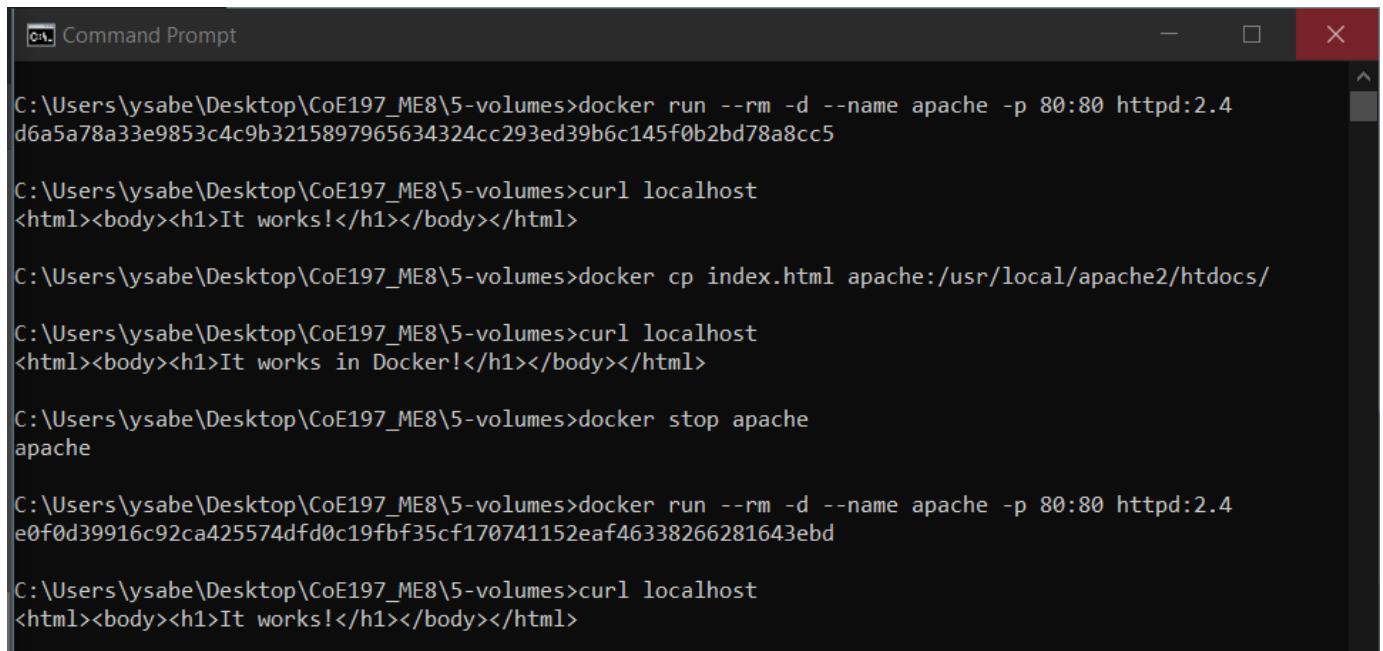


CoE 197 ME8 Exercise 5

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```
C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
d6a5a78a33e9853c4c9b3215897965634324cc293ed39b6c145f0b2bd78a8cc5

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs/

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker stop apache
apache

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
e0f0d39916c92ca425574dfd0c19fbf35cf170741152eaf46338266281643ebd

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>
```

As shown above, all steps under 'Setting up the server' were executed successfully.

Here, a new container called apache was created and was binded to port 80. A flag was also set such that the container will be deleted once the container stops.



```
C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker volume ls
DRIVER      VOLUME NAME

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker volume create myvolume
myvolume

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker volume ls
DRIVER      VOLUME NAME
local       myvolume

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker volume rm myvolume
myvolume

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker volume ls
DRIVER      VOLUME NAME

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>
```

As shown above, the exercises for managing volumes were also executed successfully.

```
Command Prompt

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
44435f8fbc1f73075d16ee24d76d1128ef5b65afda3614ca8b2ef1d7055aa850

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs/

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker stop apache
apache

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
71599f35a2dda08fbabca9a8eb8d67562d9cd76eabf666ad5313a6864947ea58

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>
```

To mount volumes on containers, the commands above were executed. As you can see, unlike the very first run, the data was retained even after the container was stopped.

```
C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes> docker run --rm -d --name apache -p 80:80 -v /Users/ysabe/Desktop/CoE197_ME8/5-volumes:/usr/local/apache2/htdocs/ httpd:2.4
3dceafd1bf3717de7e45f6ad4d20ff3a7d493a0e162a0ffd054e4f876258d0f8

C:\Users\ysabe\Desktop\CoE197_ME8\5-volumes>curl localhost
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>
  <head>
    <title>Index of /</title>
  </head>
  <body>
<h1>Index of /</h1>
<ul></ul>
</body></html>
```

Unfortunately, for the last part of the exercise, I wasn't able to get the expected output.